

21. (Amended) An improved cathode substrate for a field emission display formed by the steps of:

providing substrate;  
depositing a cap layer disposed on said substrate;  
associating an anti-reflective coating with the cap layer; and  
forming an array of emitter tips on said cap layer with the associated anti-reflective coating associated therewith said substrate.

Please add new claims 31 and 46 as follows:

31. An improved cathode substrate for a field emission display comprising:  
a substrate;  
a cap layer that has a light blocking layer associated therewith, the cap layer with the associated light blocking layer being disposed on said substrate; and  
an array of emitter tips formed on said cap layer with the associated light blocking layer, the cap layer with the associated light blocking layer being disposed on said substrate.

32. An improved cathode substrate according to claim 31, wherein said substrate is a soda-lime glass.

33. An improved cathode substrate according to claim 31, wherein said cap layer is deposited on said substrate by plasma enhanced, chemical vapor deposition.

34. An improved cathode substrate according to claim 31, wherein said cap layer has a thickness in the range of 0.1 to 0.5 microns.

35. An improved cathode substrate according to claim 31, wherein said cap layer is selected from the group consisting of silicon dioxide, silicon nitride, silicon carbide, and diamond-like carbon.

36. An improved cathode substrate according to claim 31, wherein said substrate is plastics material.

37. An improved cathode substrate according to claim 31, wherein said substrate is a non-conductive material.

38. An improved cathode substrate according to claim 31, wherein said substrate is leached prior to deposition of said cap layer.

39. An improved cathode substrate for a field emission display formed by the steps  
of:

providing substrate;

depositing a cap layer with an associated light blocking layer on said substrate;

and

forming an array of emitter tips on said cap layer with the associated light

blocking layer on said substrate.

40. An improved cathode substrate according to claim 39, wherein said substrate is a soda-lime glass.

41. An improved cathode substrate according to claim 39, wherein said cap layer is deposited on said substrate by plasma enhanced, chemical vapor deposition.

42. An improved cathode substrate according to claim 39, wherein said cap layer has a thickness in the range of 0.1 to 0.5 microns.

43. An improved cathode substrate according to claim 39, wherein said cap layer is selected from the group consisting of silicon dioxide, silicon nitride, silicon carbide, and diamond-like carbon.

44. An improved cathode substrate according to claim 39, wherein said substrate is plastics material.

45. An improved cathode substrate according to claim 39, wherein said substrate is a non-conductive material.

46. An improved cathode substrate according to claim 39, wherein said substrate is leached prior to deposition of said cap layer.

### Remarks

On July 20, 2001, Applicant filed a Preliminary Amendment in the above application. A copy of which is attached as Attachment A. In accordance with the undersigned's discussion with Examiner Day on January 2, 2002, Applicant files this Supplemental Preliminary Amendment to provide a copy of the original Preliminary Amendment and other information requested by Examiner Day. As such, Applicant provides claims 11 and 21 in this Supplemental Preliminary Agreement and the mark-up version in Attachment B. Applicant also provides new claims 31 to 46 in smooth form in this Supplemental Preliminary Amendment. Applicant